

CSSR

MUZIKAR, V.; LION, B.

Kraj Sanitary and Epidemiological Station (Krajska hygienicko-epidemiologicka stanice), Usti nad Labem

Prague, Cheskoslovenska hygiena, No 10, 1962, pp 622-626

"Causes of Microbial Contamination of Beer"

TITLE: Electronic Differential-Phase Protection Using Semiconductor Elements

PERIODICAL: Elektricheskiye Stantsii, 1960, No.2, pp.72-75

TEXT: The principle of the protective system is as follows: A narrow (0.2 to 0.3 microsec) pulse sent into a transmission line is used to cancel out the pulse reflected from the far end. An experimental version of the system has been working continuously since 1958 on a 220 kV line. Over a period of 450 days since July 1959, the installation has been tested over 400 times without a failure. During this time, the receiver bandwidth has remained constant although its centre frequency has drifted slightly. This was traced to the ferrite cores used. The behaviour of this new protective system was compared with another parallel system ΔΦ3-2 (DFZ-2) and found satisfactory. On two occasions, the system operated from one end of the line. In one case this was due to a difference in sensitivities of two circuits, in the other

Card 1/2

8623

S/104/60/000/002/001/003
E041/E421

Electronic Differential-Phase Protection Using Semiconductor Elements

because one circuit was still in a recovering condition. Transistors type M_1 , M_2 , M_3 and M_6 (P_1 , P_2 , P_3 and P_6) are used. A P_1 failed after 1500 hours, a P_3 after 4780 hours. There are 46 germanium diodes in the system, all type $\text{M}\text{U}-\text{D}24$ (D_{101} part). None have failed. Three of the 46 do not contain the letter "D".

Card 2/2

LION, JINDRICH

"V zemi ruzi a tabaku; s reporterslym zapisnikem po Bulharsku. (1. vyd.)
Praha, Svobodne slovo-Melantrich, 1956. 151 p. (In the land of roses and
tobacco; with a reporter's notebook in Bulgaria. 1st ed. illus.)"

P. 151 (Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 7, July 1958

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

CONFIDENTIAL

Information on London Airport. Letecky obzor 8 no.2:52-53 F '64.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

GVOZDANOVIC,V.; LION-GULAJ,M.

Roentgenological changes in the skull bones in hydrocephalus.
Neuropsihijatrija 11 no.1:56-66 '63

1. Iz Zavoda za radiologiju Medicinskog fakulteta u Zagrebu;
predstojnik prof.dr.M.Smokvina.

L 58439-65 EWT(d) LJP(c)
ACCESSION NR: AR5013632

UR/0044/65/000/004/B136/B136
518;512.25

SOURCE: Ref. zh. Matematika, Abs. 4B677

AUTHORS: Kagan, G. M.; Liopo, T. N.

TITLE: Program for solving a system of linear algebraic equations by the bracketing method

CITED SOURCE: Sb. programm dlya BESM-2m. Vyp. 1. Novosibirsk, 1964, 91-149

TOPIC TAGS: linear equation, algebraic equation, equation solution, bracketing method, computer program

TRANSLATION: The program is constructed in two variants, A and B. In both variants, the initial information (only the non-zero elements of the system) is stored in one of the drums. The difference lies in the fact that the intermediate information is stored only in the operative memory in program A, whereas in program B the second drum is also used. With respect to the initial matrices filled 100% with non-zero elements, the capabilities of the programs are as follows: For program A: $n \leq 79$; for program B: $n \leq 154$. The total length of program A is 374 words, that of program B is 398 words. No control and test unit is used. The operating time of program A is up to 3 minutes ($n = 150$, 7% non-zero elements);

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L 58439-65
ACCESSION NR: AR5013632

that of program B is 95 seconds ($n = 110$; 3%) or 20 minutes ($n = 145$; 5%). Section 1 of the program description contains the characteristics and the algorithm of the bracketing method.

SUB CODE: MA

ENCL: 00

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CIA-RDP86-00513R000930010020-6

ZUERENHARDT, D.A. (deceased) 11001, V.A., HOMESTEAD, FLA.

Black Report issued 12/10/60 by the Office of Intelligence and Security, CIA
to the FBI, dated 12/10/60.

1. Deceased by natural causes and death certificate filed 12/10/60.
2. Death certificate filed 12/10/60.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

ACCESSION NR: AP4041132

S/0149/64/000/003/0131/0132

AUTHOR: Fedosov, V. N.; Liopo, V. A.; Nadol'skiy, A. P.

TITLE: A study of the structure of scandium oxide at various
temperatures

ACCESSION NR: AP4041132

is $66.6 \cdot 10^{-6}$ Å/degree C. Orig. art. has: 2 figures.

ASSOCIATION: Irkutskiy politekhnicheskiy institut. Kafedra
metallurgii tyazhelykh metallov (Irkutsk Polytechnical Institute,
Department of the Metallurgy of Heavy Metals)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"

SUBMITTED: 01Jun63 ATD PRESS: 3050 ENCL: 00

SUB CODE: IC, OP

NO REF Sov: 002

OTHER: 001

L 002302-67 EXP(e)/EMT(m) VII
ACC NR: A19013611

SOURCE CODE: UR/0139/66/000/003/0040/0043

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The author has used the possibility of ionization to improve the quality of x-ray patterns and to obtain new facts on the structural variations occurring in phlogopites (such as mica) when heated. The better results are due to replacing the earlier Bragg spectrograph and photography of the reflection with the more accurate goniometer of the URS-50-I x-ray apparatus and to recording the reflections on paper by ionization. The mica-phlogopite plates tested measured 14 x 0.5 mm and were clamped with thin beryllium discs in a ceramic holder to reduce the influence of swelling. The experiments have shown that there are three types of changes in the interplanar distance d_{001} with variation of temperature. For hard phlogopites this dependence is linear; for soft planes, the expansion coefficient is negative in the temperature interval 160 - 250°C. For phlogopites of average hardness, the curve occupies an intermediate position between the foregoing two. Infrared spectroscopy has

Card 1/2

L 09369-67

ACC NR: AP6023411

shown that the absorption in the region of the valence vibrations of OH groups is maximal for soft phlogopites. The effect is attributed to the existence in the phlogopite of layers capable of becoming dehydrated and losing the water between the layers. The dehydration can be effected not only by heating, but also by electron bombardment. Orig. art. has: 4 figures and 10 formulas.

SUB CODE: 20// SUBM DATE: 09Jul64/ ORIG REF: 010/ OTH REF: 006

KOZLOV, L.M.; LIORBER, B.G.

Action of ketenes on some α -nitro alcohols. Trudy ZKHTI
no.26:48-52 '59. (MIRA 15:5)
(Ketene) (Alcohols)

TITLE:

Some merocyaninocarbocyanine derivatives of imidazolinone-
(4)

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 4, 1962, 456, abstract
4L418 (Tr. Vses. n.-i. kinofoto-instituta, no. 37, 1960,
5-16)

TEXT: Symmetrical and asymmetrical merocyaninocarbocyanine derivatives are synthesized from 1-cyclohexyl-3-methylimidazolinone-4 with the residues of various heterocyclic bases in merocyanic and carbocyanic components of the molecule. An investigation is made of the structural dependence of the colors of these compounds and of the nature of the electron density distribution in the chromophores of the molecule.

[Abstracter's note: Complete translation.]

Card 1/1

15

20

25

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53630 2220, 2209

31551
S/081/61/000/022/023/076
B110/B138

AUTHORS: Razumov, A. I., Liorber, B. G.

TITLE: Butyl ester of allyl phosphinic acid, its properties, and chemical conversions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1961, 207, abstract 22Zh233 (Tr. Kazansk. khim.-tekhnol. in-ta, no. 29, 1960, 27-28)

TEXT: $\text{HPCl}(\text{CH}_2\text{CH}_2)_3$ (I) here and below, $\text{H}-\text{CH}_2-\text{CHCl}_2$) was synthesized. With addition of NaOH to the solution of the ester in CHCl_3 , which then contained

the same amount of HCl , the product was obtained. The yield of product IV, 139-140/12, 1.4522, 0.9460. By reaction of IV with Br_2 an additive product with bromine was obtained. [Abstracter's note: Complete translation]

Card 1/1

86838

53630

2205, 1266, 1287

S/020/60/135/005/028/043
B016/B052

AUTHORS: Razumov, A. I. and Liorber, B. G.

TITLE: Investigation of the Derivatives of Phosphinic and Phosphinous Acids. Synthesis and Properties of the Dibutyl Ester of Allyl Phosphinous Acid

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 5,
pp. 1150-1152

TEXT: The authors studied the synthesis of esters of phosphinous acids and their derivatives (Refs. 2, 3). In this paper, they describe the synthesis of dibutyl ester of allyl phosphinous acid (DBEAPA) and some of its conversions. The ester was synthesized by reaction of allyl magnesium bromide with dibutyl chloro-phosphite at -60°C (Ref. 1) in dry ether. Complexes with halide salts of Mg did not form. DBEAPA is a colorless liquid with a characteristic phosphinic smell, and when poured on paper or cotton wool, it enters into a vigorous reaction with atmospheric oxygen under the formation of smoke. In order to verify the structural formula suggested by them for DBEAPA, the authors compared several addition reactions to

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These two authors was attributed to the different position of the double bond with respect to the phosphorus atom. DBEAPA and butyl react with a fixed temperature. The reaction of the former with sulfur and selenium is vigorous and causes the formation of the corresponding esters of allyl-thio and allyl-selenium phosphinic acids. The Arbuzov rearrangement (not explained here) in the case of DBEAPA occurs easily (with butyl iodide in a sealed tube at 117°C), and is finished within 20 min. The trivalent structure of phosphorus is thus proved. It is noted that presence of a double bond may be proved by the chlorination of the isomerized product at -5 + 0°C whereby the butyl ester of butyl- β,γ -dichloropropyl phosphinic acid was formed. It is not able to withstand high temperatures and partly decomposes during distillation while HCl is separated. Table 1 shows the constants and analytical data of the synthesized compounds. There are 1 table and 7 references: 6 Soviet and 1 French.

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86838

Investigation of the Derivatives of Phosphinic S/020/60/135/005/028/043
 and Phosphinous Acids. Synthesis and Properties of the Dibutyl Ester of Allyl Phosphinous Acid B016/B052

ASSOCIATION: Kazanskiy khimiko-tehnologicheskiy institut im. S. M. Kirova
 (Kazan' Institute of Chemical Technology imeni S. M. Kirov)

INVESTIGATOR: Treskov, V. N., Dr. A. I. Gulyaeva, postdoctoral

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 S/020/60/135/005/028/043
 B016/B052

Sample No./nm	n _D ²⁰	n _D ²⁰	NH ₃	P, %	A(6), %	B(6), %
102.4 - 108 ^{1/10}	1.4408	0.0000	04.01	04.00	14.00	14.02
103 - 108 ^{1/10}	1.4417	0.0000	00.09	00.00	12.00	19.4

104 - 108^{1/10} 1.4409 1.4407 01.00 01.00 10.49 10.49 APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"

105 - 108^{1/10} 1.4408 0.0000 00.00 00.00 11.11 11.11

106 - 108^{1/10} 1.4408 1.4407 00.00 00.00 20.00 20.00

Legend: 1 = compound; 2 = temperature, °C/mm Hg; 3 = t₁; 4 = t₂; 5 = determined content; 6, 8, 10 = calculated content; 7 = yield, %.

Card 4/4

S/079/60/030/006/022/033/XX
B001/B055

AUTHORS: Kozlov, L. M., Markovich, Ye. A., and Liorber, B. G.

TITLE: On the Reaction of Nitro-olefins With Acyl Halides

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 6,
pp. 1937 - 1941

TEXT: Basing on the publications Refs. 1-5, the authors investigated the reactions of α -nitro-olefins with acyl halides. Unexpectedly, a 1,3-tran-som rearrangement of the α -nitro olefins takes place in this reaction. Leading to the acid halides of α -halo-N-acyl hydroxamic acids and separation of the corresponding ester with according to the reported scheme.

NAME	CH ₃ COCl	CH ₃ COBr	CH ₃ COI	CH ₃ COCl	CH ₃ COBr	CH ₃ COI
Yield (%)	80	70	60	80	70	60
Purity (%)	90	80	70	90	80	70
BP (°C)	100	110	120	100	110	120
REFERENCES	1	2	3	4	5	6

On the Reaction of Nitro-olefins With
Acyl Halides

B001/B055

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nitroso compounds as intermediates is indicated by the blue-green color of the reaction mixture which disappears towards the end of the reaction. It is assumed that the first step is an addition in the 1,4-position of $(\text{CH}_3)_2\text{C} = \text{CHNO}_2$ (Ref.3) and is followed by addition to the

$\text{C} = \text{N}$ bond and splitting off of the acid. The structure of the acid halides of the α -halo-N-acyl hydroxamic acids was established by hydrolysis of the acid bromide of α -bromo-N-propionyl hydroxamic acid, which gave hydroxylamine hydrobromide, α -hydroxy-isobutyric acid, propionic acid, and hydrobromic acid. All the acid halides of the α -bromo-N-acyl hydroxamic acids turn red on addition of a solution of iron chloride in aqueous alcoholic solution. Tertiary nitro-olefins reacted under similar conditions only with one molecule of acid halide, but the reaction products could not be obtained in analytical purity, since they evidently distill off together with the initial nitro-olefins. The constants and yields of the compounds synthesized are tabulated. There are 1 table and 8 references: 1 Soviet, 2 US, 3 British, 5 German, and 1 French.

On the Reaction of Nitro-olefins with Acylic Halides

a/079/act/000/000/002/003/xx
root/b055

ADDITIONAL OFFICE: *Responsible Whistler Building and Landlord, Franklin Street, Mount Pleasant, Glasgow, Institute of Chemical Technology, University of Strathclyde, Glasgow, G1 1XL.*

Card 3/3

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

RAZUMOV, A.I.; LIORBER, B.G.; MOSKVA, V.V.; KHAMMATOVA, Z.M.

Preparation of dialkyl phosphorous acid chlorides. Trudy KKhTI
no. 30:265-270 '62. (MIRA 16:10)

RAZUMOV, A. I.; LIORBER, B. G.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"

Derivatives of phosphinic and phosphinous acids. Part 18:
Synthesis and properties of dihexyl ester of allylphosphinous
acid. Zhur. ob. khim. 32 no.12:4063-4066 D '62.
(MIRA 16:1)

1. Kazanskiy khimiko-tehnologicheskiy institut imeni S. M.
Kirova.

(Phosphinous acid)

RAZUMOV, A. I.; LIORER, B. G.; GAZIZOV, M. B.; KHAMMATOVA, Z. M.

Phosphinic and phosphinous acid derivatives. Part 20: Synthesis
of esters of allylphosphinous acid and the reaction of addition
of esters of phosphorus acids to aldehydes. Zhur. obshch. khim. 15, no. 6, 1941
pp. 1250-1254.

LIGERBER, B. G.; RAKUNOV, A. I.

Phosphinic and phosphinous acid derivatives. Part 31.
Rearrangement reactions of allyl phosphinites. Izv. ob.
Khim. 34 no.6:1855-1859 Je '64. (MIL. 17:7)

1. Kazanakty khimiko-tehnologicheskiy institut imeni Kirova.

L 31269-66 EWT(e)/EWP(j) RM
ACC NR: AP602266

SOURCE CODE: UR/0079/66/036/002/0314/0319

AUTHOR: Liorber, R. G.; Kazumov, A. I.

ORG: Kazan' Chemotekhnologicheskiy Institut im. F. M. Kirov (Kazanskiy khimiko-tehnologicheskiy institut)

TITLE: Investigation in the series of phosphinic and phosphinous acid derivatives.
XXXIII. Addition, rearrangement, and oxidation of esters of phosphorus acids with allyl radicals

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 314-319

TOPIC TAGS: esterification, nonmetallic organic derivative, phosphinic acid, epoxide, oxide formation, spectrum analysis, molecular structure

ABSTRACT: The diallyl ester of allylphosphinous acid was synthesized by the action of allyldichlorophosphine on allyl alcohol in the presence of triethyl-amino, and some of its reactions, proceeding with the participation of the trivalent phosphorus atom, were studied. Diallyl esters of allylthio- and -seleno-phosphinic acids were prepared by the addition of sulfur and selenium to the diallyl ester of allylphosphinous acid; the corresponding esters of allyl- and diallylphosphinic acids were prepared by rearrangement with chloral and allyl bromide. Mono-, di-, and triepoxide derivatives of secondary phosphinic acids were prepared by oxidation of esters of allylethyl- and diallyl-phosphinic acids with acetyl peroxide. Proton magnetic resonance spectra established the structures of these epoxides. The epoxy compounds and rearrangement products are being tested for biological activity. Orig. art. has: 1 figure and 2 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 02Feb65 / ORIG REF: 012 / OTH REF: 004

Card 1/1 ② ③ UDC: 547.26'113

LIORENTSEVICH, I. G.

¶ Y

AUTHOR:

Molodtsov, I. V.

SOV/zo-58-9-48 / 51

CONF:

CONFERENCE OF THE ASSOCIATION OF SCIENTIFIC LIBRARIES OF THE USSR

palata (All-Union Library), Akademicheskaya Biblioteka im. V.I.Lenina (State Library imeni V.I.Lenin), Gosudarstvennaya biblioteka im.M.Ye.Saltykova-Shchedrina (State Library imeni M.Ye.Saltykov-Shchedrin) and many other libraries. Scientific cooperators of the institutes and libraries of the AS USSR participated in the conference as well as cooperators of the Academies of Sciences of the Ukraine, Belorussia, Kazakhstan, Turkmenistan, Latvia, Lithuania, Azerbaydzhhan.

The following reports were heard:

I.V.Molodtsov spoke about the fundamentals of classification. V.M.Voronov on the fundamentals of the methods of classification.

Card 1/3

Tasks of Library Cataloguing. Scientific Conference
in Leningrad

SOV/30-58-9-48/51

I.G.Liorentsevich recommended to classify separately the problems of social life.

A.I.Morozova reported on problems concerning the classification of the history of economics.

V.A.Dinaburg spoke about the systematization of chemical publications.

N.I.Kats about the basis of classification of the history of the KPSS.

T.I.Skripkina spoke about the establishment of systematic library catalogues.

V.M.Dukel'skiy about the classification of physical publications.

V.P.Bersenevsky proposed of the including of chemistry in the general classification of sciences.

Tasks of Library Cataloguing. Scientific Conference
in Leningrad

SOV/30-58-9-48/51

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I.G.Khandzhyan emphasized that at the beginning of classification not only Dialectic Materialism but also Marxism-Leninism as a whole should be placed.

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STRAZHESKO, Nikolay Dmitriyevich; AYZENBERG, A.A., professor, redaktor;
YEVTEUKHOVA, M.L., dotsent, redaktor; KAVETSKIY, P.Ye., professor,
redaktor; LIOZINA, Ye.M., dotsent, redaktor; MIKHNEV, A.L.,
professor, otvetstvennyy redaktor; PRIMAK, F.Ya., professor,
redaktor; SAYKOVA, V.V., dotsent, redaktor; CHEBOTAREV, D.F.,
professor, redaktor; YANOVSKIY, D.N., professor, redaktor;
SHEZHIN, M.I., redaktor izdatel'stva; RAKHLINA, N.P., tekhnicheskiy
redaktor.

[Selected works] Isbrannye trudy. Kiev, Izd-vo Akademii nauk
USSR. Vol.1. [Problems in the pathophysiology of the circulation
of the blood] Problemy patofiziologii krovoobrashcheniya. 1955. 398 p.
Vol.2. [Problems of sepsis, endocarditis, rheumatism, physiology
and pathology of the organs of digestion] Problema sepsisa, endokardita,
revmatizma, fiziologija i patologija organov pishchevarenija. 1956.
(MIRA 9:7)
365 p.

1. Dejstvitel'nyy chlen AN USSR (for Kavetskiy)
(PHYSIOLOGY, PATHOLOGICAL)

Volumen of effektyvnykh byudz. po vseim organam v tle lezey cheloveka
organam; isotope method. Vest. rent. i rad. 31 no.5;21-26 8-0 '50.
(MLRA 10:1)

1. Iz otdela klinicheskoy gematologii i laboratorii izotopov (zav. -
prof. D.N.Yanovskiy) Ukrainskogo instituta klinicheskoy meditsiny
imeni akad. N.D.Strazhesko (dir. - prof. A.L.Mikhnev)
(BLOOD VOLUME, determ.
isotope method)

URSR/Human and Animal Physiology - Blood Circulation.
The blood.

Author: Dr. John Bokdy, M.D., Ph.D., F.R.C.P., F.R.C.P.(C)

Author: Dr. L. S. Levy, M.D.

Book: "Blood Circulation", F.F.E.P., Geneva, Switzerland, 1960, 1st edition.

Card 1/1

- 53 -

LIOZINA, Ye.M.; TYDEL'SKAYA, I.L.; MYSIAVSKAYA, I.S.

Hemolytic properties of blood in hemolytic anemias. Mat. po
obz.nauch.inform. no.2:79-81 '58. (MIRA 13:6)

l. Iz otdela klinicheskoy hematologii (zav. - prof. D.N. Yanovskiy)
i bakteriologicheskoy laboratorii (zav. - I.L. Tydel'skaya)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy
meditsiny, Kiyev.
(ANEMIA) (HEMOLYSIS AND HEMOLYSINS)

"The Influence of the Regeneration Process in One Section of the Organism on the Rate of Regeneration in Another," Tr. N.-issl. in-ta eksperim. morfogeneza (Transactions of Research Institute of Experimental Morphogenesis), 1, 101, 1934.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

LIGGNER, L. D.; VORONISOVA, M. A.

"Influence of the Regeneration Process of One Section of the Organism on the Rate of Regeneration of Another," Communication, IV, Tr. N-issl. in-ta eksperim. morfogeneza, 4, 137, 1936.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

LIOZNER, L. D.

"On the Mechanism of Opercular Membrane Perforation during
Metamorphosis of ANURA," Dok. AN, 26, No. 8, 1940. Inst. of
Experimental Morphogenesis; Moscow State Uni., c1940-.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

LIOZNER, L.

"The Restoration of the Regenerative Power of the Axolotl Limb after X-Ray Irradiation," DAN SSSR, 57, No 6, pp 633-35, 1947

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"APPROVED FOR RELEASE: 07/12/2001

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VORONISOVA, M.A.; BLOZNIR, L.D.

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BLYAKHER, L.Ya.; SHMIDT, G.A., redaktor; LIOZNER, L.D., redaktor;
SHEVCHENKO, G.N., tekhnicheskiy redaktor.

[History of embryology in Russia; from the middle of the
18th century to the middle of the 19th century] Istorija
embriologii v Rossii; s serediny XVII do serediny XIX veka.
Moskva, Izd-vo Akademii nauk SSSR, 1955. 373 p. (MLBA 8:12)
(EMBRYOLOGY)

[Histological regeneration] Histologicheskaya regeneratsiya.
Moskva, SSSR, Izd-vo "Naukova dumka," 1959. 407 p. (MLBA 8:13)
(Regeneration (Biology))

POLAND / General Biology. Individual Development.

B-4

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 47594

Author : Liozner, L. D.

Inst : Leningrad University.

Title : Regeneration and Embryonal Development.

Orig Pub : Sbornik Problemi Sovremen Embriol, Leningrad Univ., 1956,
333-340.

Abstract : The author discusses the possibility of comparing regeneration and embryonal development. Noting the similarities between those two processes, he proceeds to examine in detail the differences between them. In contradistinction to embryonal development, regeneration is always preceded by trauma leading to a disruption of tissue junctions and to a reorganization of the uninjured tissues. Embryogenesis is characterized in all cases by the presence of a single constant source for the undifferentiated part in organ formation. During regeneration two very differently differentiated undifferentiated components may be utilized, depending on conditions.

REF ID: A6571

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"

[Asexual reproduction and regeneration] Bespoloe razmnozhenie i
regeneratsiya. Moskva, Gos.izd-vo "Sovetskaja nauka," 1957. 415 p.
(Reproduction, Asexual) (MIRA 11:7)
(Regeneration (Biology))

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

DIONNE, L.D. (Monkton).

Manifestations of regenerative ability in mammals. Chap. seven. 1961,
11 pp., 21pph. \$1.75. No. AR 132.
(BIBLIOGRAPHY (1961-1962)) (TRANSLATED)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

~~SECRET~~ A.R., L.D.

IVANOV, Artemiy Vasil'yevich; STRELKOV, Aleksandr Aleksanrovich; POLYANSKIY,
Yuriy Ivanovich; LILOZHEK, L.D., red.; SIDOROVA, V.I., red. izd-va;
KUZ'MINA, N.S., tekhn. red.

[Complete laboratory manual in invertebrate zoology. Pt.1] Bol'shoi
praktikum po zoologii bespozvonochnykh. Pt.1. Izd.2. Moskva, Gos.
izd-vo "Sovetskaya nauka," 1958. 558 p. (MIRA 11:9)
(Invertebrates)

Reported on problems in regeneration and cellular reproduction.
Vest. AMN SSSR 13 no. 5:66-73 '58 (MPA 13:6)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"
(REGENERATION (BIOLOGY)) (CELL DIVISION (BIOLOGY))

LIOZNER, L.D., prof.

Biological and clinical aspects of the study of regeneration.
Vest. AMN SSSR 13 no. 8:28-34'58 (MIRA 11:8)

1. Institut eksperimental'noy biologii AMN SSSR,
(REGENERATION
biol. & clin. aspects (Rus))

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

LIOZNER, L.D., prof., DOBROKHOTOV, V.N., kand.biol. nauk

Physiological regeneration and some trends in its study.
Vest.AMN. SSSR 13 no.11:41-50 '58
(REGENERATION (biology)
review (Rus))
(MIRA 11:12)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

DOBROKHOTOV, V.N., LIOZNER, L.D.

Results of the conference on problems of regeneration and cellular multiplication. Usp.sovr.biol. 45 no.3:388-392 My-Je '58 (MIRA 11:8)
(REGENERATION (BIOLOGY))
(CELLS)

STUDITSKIY,A.N., otv.red.; GRAYEVSKIY,E.Ya., red.; GRIGOR'YEV,T.A., red.; YELISEYEV,V.G., red.; ZBARSKIY,I.B., red.; LIOZNER,L.D., red.; MITRKOVICH,N.R., red.; PRUDENSKHTRYN,A.Ya., red.; KHRUSHCHOV,G.K. red.; TIKHONOV,V.P., red.; VASIL'YEV,V.V., red.; LAVRINOVICH,A.I., red.; TIKHONOV,V.P., red.

1. Konferentsiya po radiohistologii i radioembriologii v Moskve 1959. 1. Radiohistologiya i radioembriologiya. 2. Radiobiologicheskaya konferentsiya. Moscow, Moscow. nauchno. ob-vo anatomov, gistolologov i embriologov, 1959. 319 p. (MIRA 14:5)

1. Kafedra gistolozii Moskovskogo gosudarstvennogo universiteta im.M.V.Lomonosova, Moskva (for Studitskiy).
2. Laboratoriya radiobiologii Instituta morfologii zhivotnykh im.A.N.Severtseva AN SSSR, Moskva (for Grayevskiy, Zbarskiy).
3. Kafedra gistolozii, i embriologii Leningradskogo sanitarno-gigienicheskogo meditsinskogo instituta, Leningrad (for Grigor'yev).
4. Kafedra gistolozii i embriologii 1-go Meditsinskogo instituta im.Sechenova, Moskva (for Yeliseyev).
5. Gruppa biokhimii kletochnykh struktur Instituta morfologii zhivotnykh im.A.N.Severtseva AN SSSR, Moskva (for Zbarskiy).
6. Laboratoriya rosta i razvitiya Instituta eksperimental'noy biologii AMN SSSR, Moskva (for Liozner).
7. TSentral'naya nauchno-issledovatel'skaya Laboratoriya 2-go Moskovskogo meditsinskogo instituta im.N.I.Pirogova, Moskva, (for Khrushchov).

(HISTOLOGY--CONGRESSES)

DOGEL', Valentin Aleksandrovich, prof. [deceased]; IVANOV, A.V., prof.,
red.; POLYANSKIY, Yu.I., prof., red.; STRELKOV, A.A., prof.,
red.; LIOZNER, L.D., red.; SIDOROVA, V.I., red.izd-va; PAVLOVA,
V.A., tekhn.red.

[Invertebrate zoology] Zoologiya bespozvonochnykh. Izd.5 (pervoe
posmertnoe). Pod red. i s dop. A.V.Ivanova, IU.I.Polianekogo i
A.A.Strelkova. Moskva, Gos.izd-vo "Sovetskaiia nauka," 1959. 511 p.
(MIRA 13:8)

(Invertebrates)

LIOZNER, L.D.; RYABININA, Z.A.; SIDOROVA, V.F.

Some features of mitotic activity during the regeneration of the liver. Biul. eksp. biol. med. 47 no. 5:96-100 My '59. (MIRA 12:7)

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D. Liozner)
Instituta eksperimental'noy biologii (dir. + prof. I.N. Mayskiy) AMN
SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N.
Chernigovskim.

(LIVER, physiol.

regen, mitosis (Rus))

(CELL DIVISION,

mitosis in liver regen. (Rus))

(REGENERATION,

liver, mitotic activity (Rus))

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

LIOZNER, L.D.; SIDOROVA, V.F.

Physiological regeneration of the liver in mammals. Biul.eksp.
biol.i med. 48 no.12:93-96 D '59. (MIRA 13:5)

1. Iz laboratori rosta i razvitiya (zav. - prof. L.D. Liozner)
Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy)
AMN SSSR, Moskva. Predstavlena deystvit'ym chlenom AMN SSSR
V.V. Parinym.

(LIVER physiol.)
(REGENERATION)

LIOZNIK, I.D., prof., rad.; BYKOV, V.D., rad.; LYUUKOVSKAYA, N.I.,
tekhn.,rad.

[Regeneration of organs in mammals] Regeneratsiya organov
u zhivotnykh i cheloveka. Moscow, Sov. zdravo med. library, 1960.
391 p. (MIRA 151b)

(COMMUNICATED BY LIBRARY)

LEYKINA, Ye.M.; TONGUR, V.S.; LIOZNER, L.D.; MARKELOVA, I.V.; RYABININA,
Z.A.; SIDOROVA, V.F.; KHARLOVA, G.V.

Nucleoproteins in a normal and regenerating liver. Biokhimiia
25 no.1:96-101 Ja-F '60. (MIRA 13:6)

1. Institute of Experimental Biology, Academy of Medical Sciences
of the U.S.S.R., Moscow.
(LIVNII matn.)
(NUCLEOPROTEINS matn.)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

LIOZNER, L.D.

"Regeneration and somatic embryogenesis" by D.P. Tokin. Reviewed
by L.D. Liozner. Fiziol. zhur. 46 no. 4:119-120 Ap '60.

(MIRA 13:10)

(REGENERATION (BIOLOGY))
(TOKIN, D.P.)

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"APPROVED FOR RELEASE: 07/12/2001

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LIOZNER, L.D. (Moskva)

Morphological and physiological study of regeneration in mammals.
Usp. sovr. biol. 51 no. 2:220-231 Mr-Ap '61. (MIRA 14:4)
(REGENERATION (BIOLOGY))

LIOZNER, L.D.; DOBROKHOTOV, V.N.

Second conference on regeneration and cell multiplication. Usp.
sovр.biol.'51 no.3:391-396 My-Je '61. (MIRA 14:6)
(REGENERATION (BIOLOGY)—CONGRESSES)

Kletchnomu deleniyu i regeneratsii zhelez vnutrenney sekretsii, 1962. Moskva, Mosk. ob-vo anatomov, gistolologov i embriologov, 1962. 61 p. (MIRA 15:5)

1. Simpozium po kletchnomu deleniyu i regeneratsii zhelez vnutrenney sekretsii, 1962. 2. Zaveduyushchiy kafedroy obshchey biologii 2-go Moskovskogo gosudarstvennogo meditsinskogo instituta im. N.I.Pirogova (for Makhovko). 3. Kafedra parazitologii i zoologii Moskovskogo tekhnologicheskogo instituta myasny i molochnoy promyshlennosti (for Tereza). 4. Zaveduyushchiy Laboratorii rosta i razvitiya instituta eksperimental'noy biologii Akademii meditsinskikh nauk SSSR (for Liozner). 5. Otdel morfologii Vsesoyuznogo Instituta eksperimental'noy endokrinologii (for Stroganova). 6. Kafedra obshchey biologii 2-го Moskovskogo gosudarstvennogo meditsinskogo instituta im. N.I.Pirogova (for Romanov).

(CELL DIVISION (BIOLOGY)) (ENDOCRINE GLANDS)
(REGENERATION (BIOLOGY))

LICZNER, L.D.

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1. Laboratoriya rosta i razvitiya (zav. - prof. L.D. Liozner)
Instituta eksperimental'noy biologii AMN SSSR. Adres avtora:
Moskva, K-9, Proyezd Mkhata, d. 2, kv.35.
(REGENERATION (BIOLOGY))

LIOZNER, L.D.

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no.8:98-101 Ag '61.
(MIRA 15:1)

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D.Liozner)
Instituta eksperimental'noy biologii (dir. - prof. I.N.Mayskiy)
AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR
N.A.Krayevskim.

(LIVER) (REGENERATION (BIOLOGY))

Левашов, Евгений Николаевич. Восстановление утраченных органов. М.: Университетская книга, 1962.
Художник: Г. А. Смирнова.

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LIOZNER, L.D., prof., red.; YESIPOVA, I.K., r..

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LIOZNER, L.D.

Regeneration and compensatory hypertrophy. Vestn. Akad. med. nauk SSSR 18 no.7:42-50 '63
(MIRA 17:2)

1. Institut eksperimental'noy biologii AMN SSSR.

LIOZNER, L.D. (Moskva)

Ovarian regeneration in mammals. Usp.sovr.biol. 55 no.1-11 p.
129 Ja-F '63. (MIRA 16:3)
(OVARIES) (REGENERATION (BIOLOGY))

1. Konferentsiya po nukleinovym kislotam i nukleoz v Tadzhikistane, 1st, Moscow, 1959. 2. Institut eksperimental'noj biologii AMN (for Tongur, ostev). 3. Pervyy Meditsinskiy institut imeni I.P. Sechenova, Moskva (for Debov).

"APPROVED FOR RELEASE: 07/12/2001

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DOBROKHOTOV, V.N.; LIOMER, L.D.

Conference on amitosis. TSitologija 5 no.5:598-600 8-9 '62.
(MIRA 18:5)

APPROVED FOR RELEASE: 07/12/2001

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LIOZNER, L.D.; BABAYEVA, A.G., ITALIN, R., L.R.; CHANINA, G.V.

Regeneration and compensatory hypertrophy of the lungs in taeniasis.
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(ZIFKA 18-2)

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D. Liozner) Instituta eksperimental'noy biologii (direktor - prof. I.N. Mayskiy) AMN SSSR, Moskva. Submitted May 17, 1962.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

]. Laboratoriya rosta i razvitiya Instituta eksperimental'noy
biologii AMN SSSR.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

LIOZNER, L.D.; ARTEM'YEVA, N.S.; BABAYEVA, A.G.; ROMANOVA, L.K.; RYABININA,
Z.A.; SIDOROVA, V.F.; KHARLOVA, G.V.

Level and 24-hour rhythm of mitotic activity in hypophysectomized
rats. Biul. eksp. biol. i med. 54 no.8:77-81 Ag '62.

1. Iz laboratorii rosta i razvitiya (zav. - prof. L.D. Liozner)
Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy)
AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR
N.N. Zhukovym-Verezhnikovym. (MIRA 17:11)

GUBERNIYEV, M.A.; LEYKINA, Ye.M.; LIOZNER, L.D.; RYABININA, Z.A.; SIDOROVA, V.F.; KHARLOVA, G.V.

Changes in the concentration of nucleic acids in the tissue of the regenerating liver of mice under the effect of DNA from rabbit liver. Biul. eksp. biol. i med. 57 no.6:88-90 Je '64.
(MIRA 18:4)

1. Laboratoriya biokhimii nukleinovykh kislot (zav. - prof. M.A. Guberniyev) i laboratoriya rosta i razvitiya (zav. - prof. L.D. Liozner) Instituta eksperimental'noy biologii (dir. - prof. I.N. Mayskiy) AMN SSSR, Moskva.

LIOZNER, L.D. (Moskva, K-9, proyezd MKhATA, 2, kv.35)

Regenerative hypertrophy as one of the basic means of
the restoration of organs. Arkh. anat., gist. i embr.
48 no.1:96-102 Ja '65. (MIRA 18:11)

1. Laboratoriya rosta i razvitiya Instituta eksperimental'noy
biologii AMN SSSR, Moskva. Submitted April 8, 1964.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

LICZNER, L.D.; ROMANOVA, L.K.; TIMASHKEVICH, T.B.

Fourth Conference on Problems of Regeneration and Cell Division.
Usp. sovr. biol. 59 no.3:487-490 My-Je '65. (MIR 18;6)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

BABAYEVA, A.G.; LIOZNER, L.D. (Moskva, K-9, proyezd MkhATA, 2, kv.35)

Symposium "Controversial aspects of the regeneration theory."
Arkh. anat., glist. i embr. 48 no.1:103-107 Ja '65.
(MIRA 18:11)

1. Adres avtora: Moskva, D-57, Baltiyskiy pos. 13, Institut
eksperimental'noy biologii AMN SSSR (for Babayeva). Submitted
May 22, 1964.

LIOZNER, L.D.; BABAYEVA, A.G.; SIDOROVA, V.F.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930010020-6"
eksp. bicl. i med. 60 no. 10396-99 o '65 (KIBM 19:1)

1. Laboratoriya rosta i razvitiya (zav. - prof. L.D. Liozner)
Instituta eksperimental'noy biologii (direktor - prof. I.M. May-
skiy) AMN SSSR, Moakva. Submitted August 14, 1964.

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6

GEOGRAPHIC, N.D.; SPENDER, V.V.

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R000930010020-6"

1. The following document was obtained from the Central Intelligence Agency (CIA) under the Freedom of Information Act. It contains neither recommendations nor conclusions of the CIA. It is being made available for historical purposes only.

1. Original:

Koncov Inst of Nonferrous Metals and Gold
E. I. Kalinin

**SO Vecheryaya Moskvâ
Sum 71**

LIOZHEN, N. A.

"Copper Plating From Cyanogen Electrolytes at Increased Current Densities." Thesis for degree of Cand. Technical Sci. Sub 15 May 50, Moscow Inst. of Nonferrous Metals and Geol. Min. M. I. Vekhnik.

Summary '71, 6 Imp 52, Dissertation Presented for Degree in Science and Engineering in Moscow in 1950. From Vechernye Novosti, June 1950.

MAGNITSKIY, A.A.; TERYUSHNOV, A.V., redaktor; LIOZNOV, A.G., redaktor;
EL'KINA, E.M., tekhnicheskiy redaktor.

[Work organization for the assistant foreman in the sliver-rove
shop of a cotton spinning factory.] Organizatsiya truda pomoshch-
nika mastera lentochno-rovnichnogo tsekha khlopkopriadi'l'noi fab-
riki. Pod red. A.V.Teriushnova. Moskva, Gos. nauchno-tekh.
izd-vo Ministerstva promyshlennyykh tovarov shirokogo potrebleniia
~~1954~~, 1954, 101 p.

(MIRA 8:3)

(Cotton spinning)

"APPROVED FOR RELEASE: 07/12/2001

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polyester and
(Textile fabrics)

CIA-RDP86-

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CIA-RDP86-00513R000930010020-6"

NIKITIN, Mikhail Nikitich; ALESHIN, Petr Antonovich; BRONYAKIN, Viktor Petrovich; ISTOMINA, Tat'yana Ivanovna; GREKOV, Andrey Ivanovich; LIOZNOV, A.G., redaktor; FRANTSUZOV, I.K., retsensent; NIKRASOVA, O.I., TURMICHENSKY redaktor

[Construction, assembly and adjustment of automatic looms ATB-9M and AT-1758h] Ustroistvo, montazh i naладка avtomaticheskikh tkatekikh stankov ATB-9M i AT-1758h. Izd. 2-ee, perer. i dop. Moskva, Gos. nauchno-tehn. Izd-vo Ministerstva tekstil'nogo promysla. BRRR, 1956. 211 p.

(UDK 621.2)

U.S. copy

MIL'MAN, Yakov Vladimirovich; PETROV, Ivan Arsen'yevich; SHVYREV, S.S.,
kandidat tekhnicheskikh nauk, retsepsent; LIOZNOV, A.G., redaktor;
MEKRAZOVA, O.I., tekhnicheskiy redaktor

[Automatic electric drive for textile machinery] Avtomatika elektro-
privoda tekstil'nykh mashin. Izd. 2-oe, perer. i dop. Moskva, Gos.
nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956.
391 p.

(MLRA 9:10)

(Automatic control)

(Textile machinery--Electric driving)

KOVALEV, F.L., kand.tekhn.nauk, red.; UAMBURG, Ya.Yu., retsenzent;
FORMAL'SKIY, M.I., retsenzent; KISELEY, M.A., retsenzent; PLEMYANNIKOV,
M.N., red.; SOKOLOVA, V.Ye., red.; LIOZNOV, A.G., red.; KNAKNIN,
M.T., tekhn.red.

[Manual on wool spinning] Spravochnik po sherstopriadeniiu.
Pod red. F.L.Kovaleva. Izd.2.. perer. i dop. Moskva, Izd-vo
nauchno-tekhn.lit-ry RSFSR, 1960. 785 p.

(MIRA 13:12)

l. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut
sherstyanoy promyshlennosti.
(Woolen and worsted spinning)

LIOZNOV, S.E.

Tuberculosis of a dermoid cyst of the ovary with perforation of the bladder. Urologia 23 no.6:62-63 N-D '58. (MIRA 11:12)

1. Iz Bryanskoy oblastnoy bol'nitny.
(OVARIUM, tuberkulizm.)

Extradition of the tuberculous ovarian bladder (case 1).

Extradition of the tuberculous ovarian bladder (case 2).

LIOZNOV, S.E.; LEVITAN, Ye.B.

Intrathoracic dystopia of a kidney. Urologia 24 no.1:59 Ja-~~Y~~ '59.
(NIRA 12:1).

1. Iz Bryanskoy oblastnoy bol'nitsy.

(KIDNEY, abnorm.

dystopia, intrathoracic (Rus))

S/032/60/026/008/018/046/xx
B020/B052

AUTHORS: Lioznova, R. Z. and Genusov, M. L.

TITLE: Analysis of Diluted Triethyl Aluminum Solutions

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 8, pp. 945-947

TEXT: An exact calculation of the concentration of the triethyl aluminum solution in gasoline is necessary for producing a catalyst for the polymerization of ethylene. The presence of ethane, a product of the triethyl aluminum decomposition by water, in gasoline solutions is neglected by the method most frequently applied for the determination of the ethyl groups in triethyl aluminum. However, 4.4 ml of ethane dissolve in 1 ml of heptane at 30°C. Experiments showed that each ml of gasoline added to the samples, reduces the concentration of the ethyl groups in triethyl aluminum by a definite value. The error in determining the concentration of the ethyl group increases with increasing dilution. Thus the concentration of the ethyl groups decreases from 20.7 to 15.3% by a five-fold dilution. Hence, the relative error is 26% (see Table). Experiments proved that the correction factor is 5.8 ml ethane for 1 ml of gasoline, and 7.9 ml ethane

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MANUFACTURER: Okhtenskiy Khimicheskiy Kombinat
(Okhta Chemical Kombinat)

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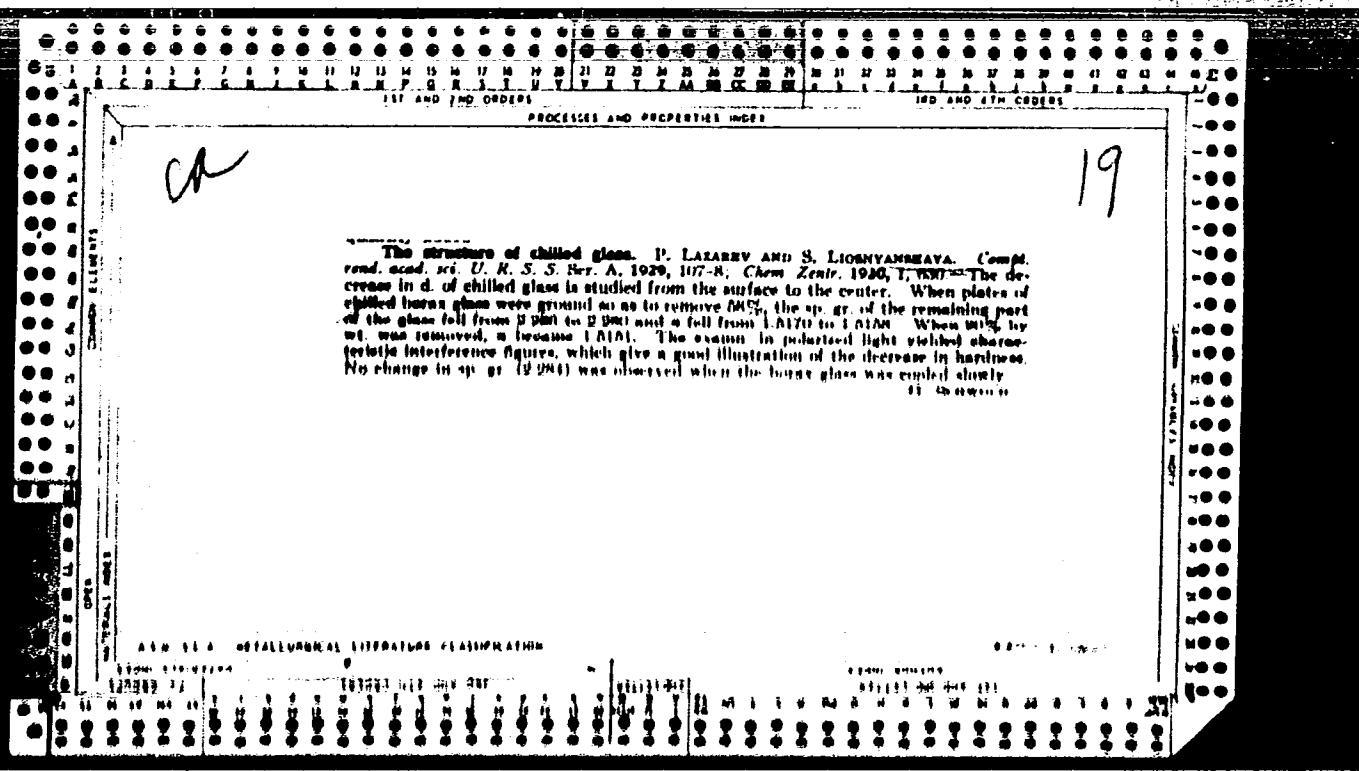
CIA-RDP86-00513R000930010020-6"

FILINKOVSKAYA, Ye.F.; BUKLOVA, M.G.; LIOZNOVA, V.P.

Analysis of textile treating products in a processing
bath. Khim. volok. no.4:39-42 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusst-
vennogo volokna.

...the value of the first and the second measurements
in the morning and in the evening two times were measured, and
the val. of the urine before at the second time measured.
The expt. conducted on 180 patients revealed that in 76
men the mg./lit. excretion of I was 0.7-1, while in the re-
maining 65 men it was below this value. After taking a
medical diet contg. 70-80 mg. I for 20 days a 0.7-1 mg./lit.
excretion of I was found in 117 patients. - E. Wiericki



ca

19

Cooling of glass. S. G. Liuzhnykhaya and S. I. Iofe. *Nauč.-Issledovat. Inst. Stekla No. 1, Solikamsk*, No. 95-112 (1934).—A detailed discussion is given of (1) methods used for detg. the cooling temp. of glass; (2) effect of oxidized forming glass on the cooling temp.; (3) calcg. the cooling temp. from the glass compn.; (4) rate of cooling dependent on the thickness of the glass; (5) supervising glass cooling; (6) polarimetric studies; (7) thermal supervision; (8) properties of cooled and hardened glasses; (9) effect of cooling on some physico-chem. properties of glass. Numerous tables and an index of literature accompany the discussion. M. V. K.

430-144 METALLURGICAL LITERATURE PLANNING

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CIA-RDP86-00513R000930010020-6"

A.C.S.

E.P.A.-2

S.G. LIORNYANSKAYA

Moscow
Most-resistant glassware. S. G. LIORNYANSKAYA.
Lekhaya Prom., 1941, No. 1, pp. 33-35; Khim. Referat
Zhur., 4 [7-8] 93 (1941). M. Ho.

A.C.S

J.C. -

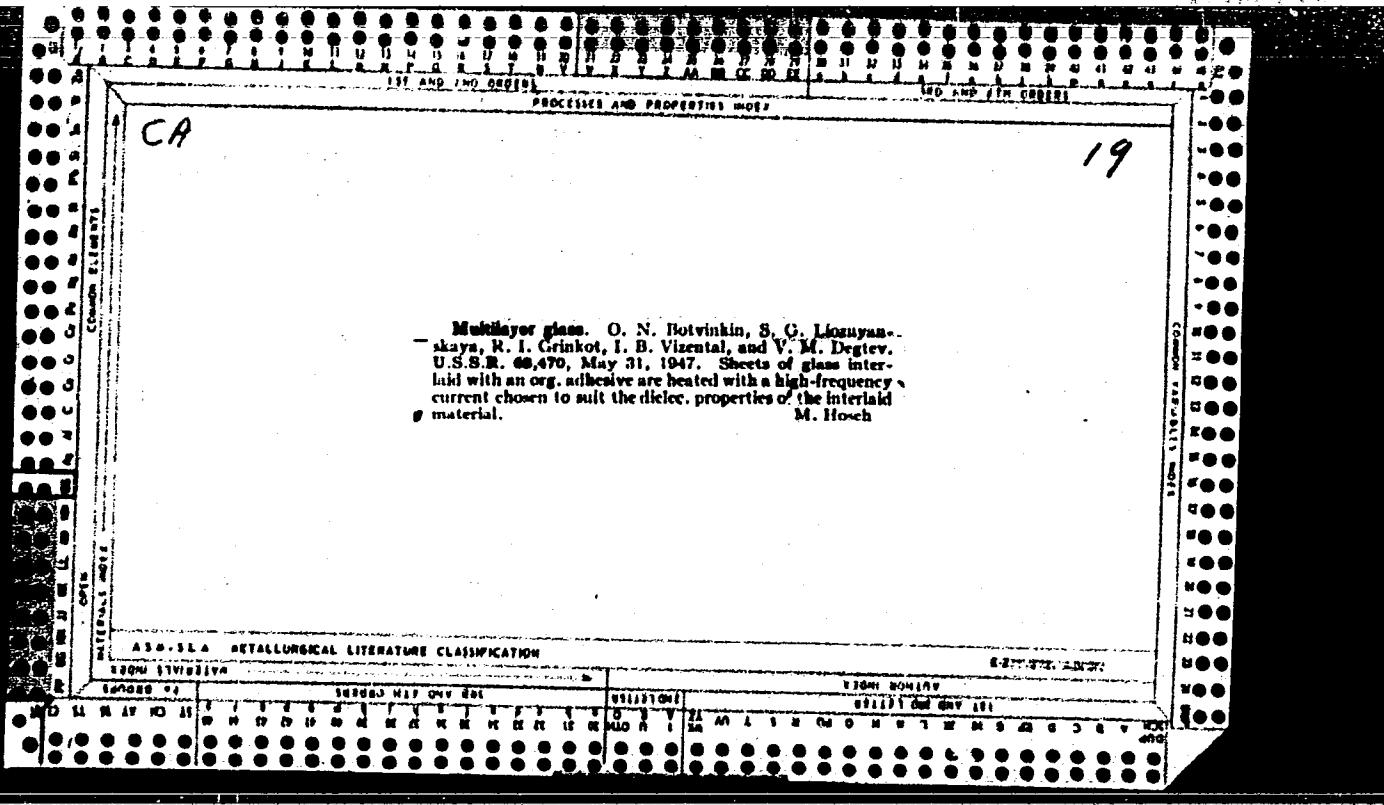
Raising the output of whole sheets of glass on Poursault machines when using a sulfate batch. S. G. LIOUVAN
KRAVA, I. O. TOMASOVICH, AND D. V. ZALENTZAK. *Sovet.*
svyazi i Krem. Prom., 1966, No. 7/8, pp. 1-6.—The use of sulfate in place of soda in the mix for window-pane glass necessitated many production difficulties. This change necessitated the revision and adjustment of many operations. The difficulties were particularly serious on the Poursault machine where the breakage of sheets was considerable. The breakage was manifestly attributable to either overheating or overcooling of the sheet, and yet the temperatures measured at the usual places seemed to be quite normal. Observations revealed that these difficulties were connected with the appearance of large quantities of alkali on the surface of the molten glass. A layer of alkali on the surface of the melt within the melting zone prevented the heat from penetrating into the mass, whereas alkali on the surface of the mass in the cooling zone prevented this mass from giving up its heat into the furnace zone. In the first case the glass is too cold; in the second it is overheated. In the plant discussed the situation was aggravated by the fact that no deoxidizers were used. Their presence usually stops the alkali and prevents their entry into the middle channel. The temperature readings of the usual instruments did not suffice for surmounting these difficulties, and other methods had to be used. As soon as an accumulation of alkali was noticed in the melting region and particularly in the region between burners 3 and 4, measures were taken immediately to raise the temperature. Similarly, when an accumulation of alkali appeared in the neck or the channel, the windows were thrown open, the draft was adjusted, and other measures were taken to lower the temperature. These measures eliminated the difficulties and prevented breakage.

M.H.

LIOZNYANSKAYA S. G.

Determination of stresses in sheet glass. S. G. LIOZNYANSKAYA AND YU. M. MALINSKII. Stekol'naya i Keram. Prom., 1944, No. 9, pp. 6-7.--- This method was especially designed for use by unskilled personnel; the apparatus is simple and includes a polariscope with a sensitive shade. The shade can be any birefracting mineral that gives a red or violet coloration to the bundle of white light passing through it. It is possible to observe very small differences in the polarized rays. From the colored view obtained it is possible to estimate with sufficient accuracy the extent of the stresses and the nature of the annealed edges. The results are used in cold cutting to minimize breakage. 1 Diagram.

B.Z.K.



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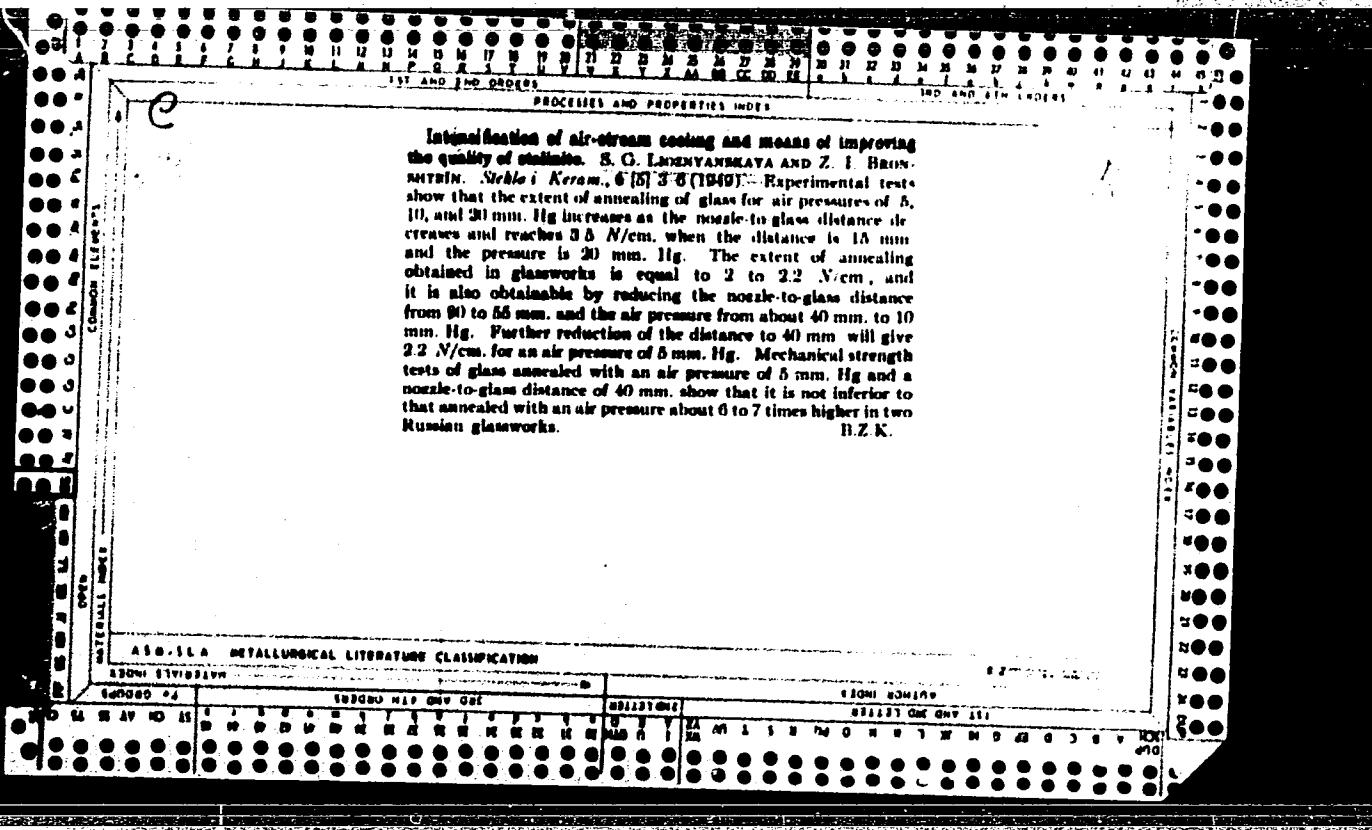
Control of strains in sheet glass. G. M. Harteney and S. O. Lioenyaanskaya. *Shtol i Keram.*, 5, No. 2, 7-14 (1948).—The use of a Russian-made polarimeter-polariscope for measuring residual strains is described. The app. can be equipped with either a Semarnon or Berek compensator. The Semarnon compensator is a birefracting plate in a quarter wave length of white light—135 m μ . The Berek compensator consists of a thin plate of calcite cut perpendicular to the optical axis of the crystal. Results with both compensators are close for a glass thickness of 2 to 20 mm. When the Semarnon compensator is used, a green-light filter should be employed with max. passage of light for a wave length of 540 m μ .

ASME-METALLURGICAL LITERATURE CLASSIFICATION

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CIA-RDP86-00513R000930010020-6"



Semitempered shapes and their use. S. G. LIOTENYAKATA -

Semitempered shapes and their use. S. G. LIOTNAYASMAA AND G. M. BARTENEV. *Steklo i Keram.*, 7 [8] 5-9 (1950).—Semitempering (creation of small residual stresses) increases thermal stability considerably and improves the strength of shapes. The nature of the destruction (analogous to annealed glass) and less rigid requirements with regard to homogeneity are of practical advantage in certain applications. Calculations of thermoelastic stresses and of thermal stability indicate that, in all cases of service, the stability is directly related to strength; all technological measures to increase strength should result in simul-

taneous improvement in thermal stability. Small residual stresses can be created simply by air cooling the heated or molded shape under conditions of free convection. The extent of tempering in air depends on the thickness and composition of the glass; for glass of SiO_2 71.3, Al_2O_3 0.7, Fe_2O_3 0.1, CaO 7.6, MgO 3.3, Na_2O 15.9, and SO_3 0.7%, the temper increased from 95 mp/cm. (0.17 n/cm.) for 2 mm., to 850 mp/cm. (1.87 n/cm.) for 25 mm. Compared with annealing, the thermal stability and strength of 6-mm. sheets was almost doubled by semitempering. Experiments with 6- and 10.5-mm. sheets indicate that the upper limit is 650° to 670°C. and the lower limit below 500°. For various practical purposes (shapes of large dimensions) it is possible to replace the test for thermal stability of the shape with a test for strength using glass of given composition and thickness, and then make an approximate calculation of the thermal stability. Equations for calculating thermoclastic stresses are given. Curves show the extent of tempering as a function of holding time in the furnace prior to tempering.

ABN-SEA METALLURG

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*C**b-glass*

Effect of extent of annealing on the characteristics of glass.
N. A. TYURBINOVA AND S. G. LIORNYANAYA. *Steklo i Keram.*, 7 [11] 3-7 (1950).—Determinations were made of extent of annealing; of resistance to bending, impact, and heat shock; and of weight loss in 1 N Na₂CO₃ solution, using vertically drawn window glass from three different glassworks. The glass was free of visible cords, schlieren, stones, and other inclusions and analyzed SiO₂ 71.16 to 72.55, Al₂O₃ + Fe₂O₃ 0.30 to 1.54, CaO 7.06 to 8.65, MgO 2.74 to 3.09, Na₂O 15.40 to 15.83, and SO₃ up to 1.05%. Sheets with minimum residual stresses had optimum mechanical, thermal, and chemical characteristics. Extent of annealing, however, had no decisive effect on the characteristics; inner nonuniformity, in the form of cords visible in polarized light, had a much greater effect on thermal stability and resistance to bending and impact. The extent of annealing was determined in accordance with Russian specification GOST 111-41, using a combination polariscope-polarimeter. The glass thickness and the corresponding birefringence values in this specification are 1.0 to 2.4, 2.4 to 2.7, 2.7 to 3.3, 3.3 to 4.0, and 4.0 to 6.0 mm. and 20, 20, 25, 30, and 40 mp/cm. The determinations revealed that these values were largely exceeded. This was due not only to insufficient annealing but also to the unrealistic requirements of the specification, which prescribes birefringence values for groups of glass sheets having a wide thickness interval (up to 2 mm.). As a result of this, glass of higher values was rejected, although it would have been satisfactory if based on thickness (mm.). Accordingly, the glass was divided into four groups of 0.1 to 8.0, 8.1 to 10.0, 10.1 to 12.0, and 12.1 to 14.0 mp/cm. mm. of thickness. On the basis of this work, it is proposed to use the value of 0 mp/cm. mm. of thickness in the revision of the specification.
B.Z.K.

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BCS

Glass

1299. Annealing of glass tubes.—S. G. LIZZYANOVAYA (*Stek. Keram.*, 8, No. 30, 3, 1951). A preliminary report of an investigation to be carried out on a new method of annealing vertically drawn glass tubes. In view of the difficulties of annealing tubes owing to the "one-sided" cooling of cylinder-shaped glass articles, the author suggests cooling the tubes from inside by cold air, the temp., amount and velocity of which will have to be found by expt. It is hoped that the method will either completely dispense with the usual annealing or at least greatly assist it if in some cases the residual stresses need be further reduced so that normal annealing will have to be carried out additionally. On the other hand, if some residual stresses on the inside surface are left, it may be considered that they will do no harm, since expts. have shown that annealed ware with

considerable residual stresses has a higher stability. Some data are given on the optical measurements of stresses. (9 figs.)

LIOZNYANSKAYA, S.G.

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Glass, Clay Products, Refractories,
and Enamelled Metals

✓ Semitempered sheet glass. ① 2
Steklo i Keram., 9, No. 1, 4-7(1952). Semitempered sheet
glass has increased heat and bending resistance, but is not
shatterproof. Sheets 1.3-3.5 mm. thick were semitempered
under varying conditions. Optimum conditions of cooling
were: diam. of nozzle 5 mm., checker arrangement of
openings 25 mm. apart, distance between nozzles 50 mm.,
air pressure at nozzles 60 mm. Hg. Under these conditions,
sheets of 1.3-1.4, 2.3-2.4, and 3.5-3.6 mm. had increases
in strength of 2.2, 3.1, and 3.0 times, resp. A conveyor
system for semitempering described. D. Z. Kamich

AMF
9-3-54

SOV/124-57-3-3170

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 75 (USSR)

AUTHOR: Lioznyanskaya, S. G.

TITLE: Technological Principles of the Air-jet Cooling of Glass During Its Hardening (Tekhnologicheskiye osnovy vozdukhostruynogo okhlazhdeniya stekla pri yego zakalke)

PERIODICAL: Tr. Vses. n.-i. in-ta stekla, 1955, Nr 35, pp 71-77

ABSTRACT: The paper adduces elementary data of the theory of the turbulent jet and describes some experiments with the model simulation of the aerodynamics of the air-jet cooling of glass during its hardening. In the first series of experiments the author determined the decaying of the axial velocity of a single jet flowing past a baffle perpendicular to the jet axis. In the second series a study was made of four closely-spaced jets issuing from a vibrating louver with four openings. There are substantial shortcomings in this experimental methodology. The arithmetical mean value of the velocities measured at twelve points, for example, is unjustifiedly assumed as the mean-mass velocity of the flow. By comparing the measured velocity decay with the theoretically computed values the author

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SOV/124-57-3-3170

Technological Principles of the Air-jet Cooling of Glass (cont.)

determines the coefficient of the turbulent jet structure to be 0.20 in the case of a single jet and 0.11 in the case of a louver. The author ascribes the reduction of this coefficient to the effect of the vibration of the blasting louver without considering the mutual interference of the cocurrent jet wakes.

G. N. Abramovich, O. V. Yakovlevskiy

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